

# Vacuum Aspiration Systems and Anaerobic Systems



## Vacuum Aspiration

ILMVAC aspiration systems provide for the safe transfer of liquid in all sectors of industry and in the laboratory.

The use of different pipet tips allows for safe and efficient removal of numerous fluids.

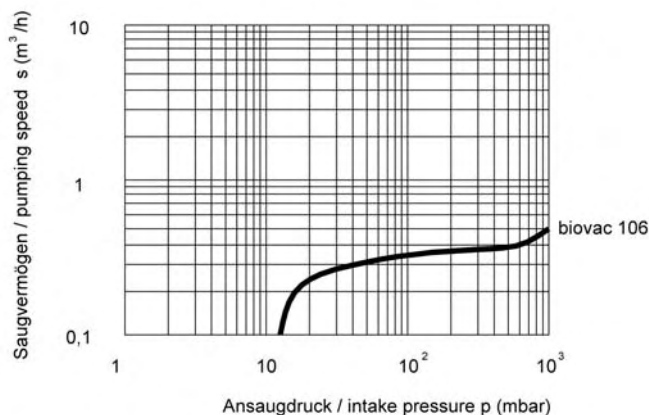
## Safety Aspiration System, biovac 106

The portable biovac 106 Safety Aspiration System with an integrated chemically resistant diaphragm pump is used for the safe and precise aspiration of non-flammable chemical, biological, and medical liquids.

The fluids can be removed easily and very precisely from slides, Petri dishes, cell culture containers etc., by using different pipets or glass tips which are inserted into the plot of the pipetting holder.

A membrane filter up to a porosity of 0.22  $\mu\text{m}$  can be inserted into a holder located in the lid of the receiver vessel by the user as required for the work to be done. According to the filter porosity used, it is possible to achieve different rates of filtration in order to reduce the risk when handling bacteria and viruses. A profile gasket serves as sealing between the head piece and the receiver container. The pump heads and connecting heads of the chemically resistant long life diaphragm pump are made from PP.

The system is switched on and off directly at the device switch or the optionally available foot switch. The connection to the diaphragm pump is made by a rapid-action coupling, which has a shut-off valve on the receiver side. Receiver and pipetting holder (plot) are connected with a hose. The built-in hose coupling seals both sides hermetically. This enables the possibly contaminated fluids collected in the receiver to be disposed of completely separately.



### Special characteristics:

- chemically resistant diaphragm pump
- operation via ON/OFF switch or optional foot switch
- autoclavable receptacle
- receiver container made from vacuum resistant glass, 2 litre
- plot with gasket profile, float valve and fine filter housing with bayonet fixing
- bacteria-, virus filters dia. 55mm, up to a pore size min. 0.22 µm
- rapid-action coupling hose connectors with automatic isolation valves
- hand-piece with pipet holder
- 1- and 8-channel pipet in the scope of supply
- consumables are available on request



### Technical Features

Ultimate pressure DIN 28432	< 150 mbar
Pumping speed 50/60 Hz	12/16 m <sup>3</sup> /h
Inlet connection	hand piece (pipetting holder)
Exhaust connection	hose nozzle DN 8 for hose inside diameter 8 mm
Receiver	2 l, with float valve and holder for non-woven filters, option 1 l
Fuse	3.15 A (F)
Noise level	45 dB(A)
Power	45 W

### Ordering Information

Type	Power supply V / Hz	Dim. (W/D/H) w/o hose mm	Weight kg	PU pcs.	Order-No.
biovac 106	115/230 / 50/60	357/145/277	8	1	112012



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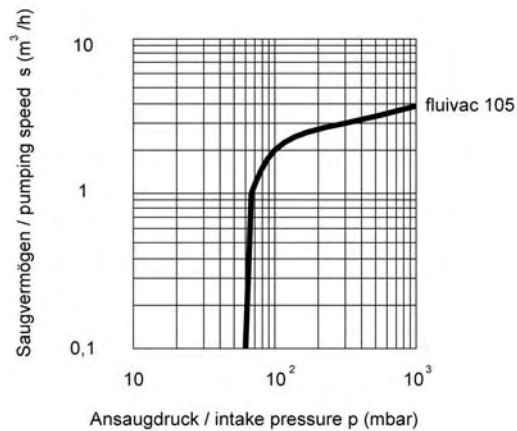
## Safety Aspiration System, fluivac 105

fluivac 105 is ideal for aspirating large amounts of surplus liquid in laboratory and industrial applications.

The system consists of a chemically resistant diaphragm pump with high pumping speed and a 5 liter receiver container. The mobile design of the system makes it quite flexible. It can easily be rolled to the location where it is needed. A folding handle saves valuable lab space.

### Special characteristics:

- chemically resistant diaphragm pump
- operation of the diaphragm pump via ON/OFF switch
- autoclavable container
- receiver container made from vacuum resistant, coated glass, 5 litre
- integrated float valve
- integrated fine filter



### Technical Features

Ultimate pressure DIN 28432	< 100 mbar
Pumping speed 50/60 Hz	63/76 m <sup>3</sup> /h
Suction connection	5 m hose with receptacle
Exhaust connection	hose nozzle for hose inside diameters of 8 mm
Noise level	45 dB(A)
Power	180 W

### Ordering Information

Type	Power supply V / Hz	Dimensions (W/D/H) mm	Weight kg	PU pcs.	Order-No.
fluivac 105	230 / 50/60	340/300/605	14	1	112007
fluivac 105	115 / 50/60	340/300/605	14	1	112007-02

## Suction/Receiver Container for Surplus Fluids, biocont

The suction container can be directly mounted onto a central vacuum supply. The pressure inside the 5 litre container will be hold constant automatically at approximately 100 mbar.

### Special characteristics:

- autoclavable container
- receiver container made from vacuum resistant, coated glass, 5 litre
- integrated float valve
- integrated filter
- holds pressure constant at approx. 100 mbar



### Ordering Information

Type	Power supply V / Hz	Dimensions (W/D/H) mm	Weight kg	PU pcs.	Order-No.
biocont	90-240 / 50/60	220/220/480	5.0	1	112548



## Vacuum Anaerobic System, anavac 104

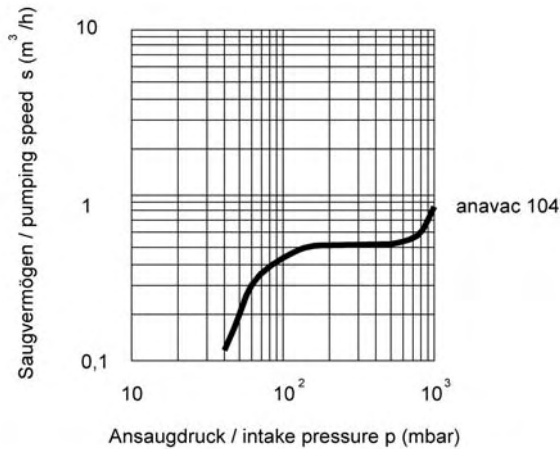
The anaerobic aeration system anavac 104 consists of a controller as central unit, which is connected with a diaphragm pump, a reaction gas container and a rinsing gas system.

The parameters of the aeration system are preset from the manufacturer. Over the interface RS 232 these can be changed easily by means of a PC or laptop as required. A detailed description is to be found in the manual. Via the start button the fully automatic process is released.

The ventilation with the reaction gas follows the evacuation of the attached anaerobic container up to the adjusted pressure. The preset number of cycles is repeated automatically.

With rapid-action couplings the system can be attached to and separated from the reaction gas container.

The anavac 104 is supplied completely installed. The aeration gas and the pressure-reducing valve are not included in the scope of delivery.



### Technical Features

Ultimate pressure DIN 28432	< 50 mbar
Pumping speed 50/60 Hz	0.9/1.0 m³/h
Pumping speed 50/60 Hz	15/16.6 l/min
Noise level	44 dB(A)
Power	0.83 kW
Inlet connection	hose nozzle for vacuum hose NW 8
Exhaust connection	hose nozzle for vacuum hose NW 8
Ventilation	screw-type clamping ring coupling 8 / 6x1 mm
Fuse (fine)	T1 A



### Ordering Information

Type	Power supply V / Hz	Dimensions (W/D/H) mm	Weight kg	PU pcs.	Order-No.
anavac 104	115/230 / 50/60	235/145/280	7	1	112011